

Scenario	Bridge Attributes				Results					
	Bridge Thickness (mm)	Span (m)	Road Width (m)	Lowest Bridge Soffit Elevation	Design Flood Frequency	1:50-Year WL at Bridge	Regional WL at Bridge	Regional WL 170 m Upstream	Regional WL 500 m Upstream	1:50-year Storm Clearance (m)
Existing Conditions	700	23.5	6.3	230.29 m	1:50	230.03 m	231.86 m	231.92 m	232.03 m	0.26
Keep bridge, widen span	700	36	6.3	230.29 m	1:50		231.9 m	231.93 m	232.04 m	0.17
Replace bridge with one lane truss, same soffit elevation	900	23.5	6.3	230.29 m	1:50	230.03 m	231.86 m	231.92 m	232.03 m	0.26
Replace bridge with two lane truss, same soffit elevation	900	23.5	12	230.29 m	1:50	230.04 m	231.87 m	231.93 m	232.04 m	0.25
Replace bridge with one lane truss, raise soffit to achieve clearance	900	23.5	6.3	231.03 m	1:50	230.03 m	231.89 m	231.95 m	232.06 m	1.00
Replace bridge with two lane truss, raise soffit to achieve clearance	900	23.5	12	231.04 m	1:50	230.04 m	231.91 m	231.96 m	232.07 m	1.00
Replace bridge with one lane truss, raise soffit to achieve clearance, widen the span	900	33	6.3	231.04 m	1:50	230.04 m	231.90 m	231.95 m	232.06 m	1.00
Replace bridge with two lane truss, raise soffit to achieve clearance, widen the span	900	33	12	231.04 m	1:50	230.04 m	231.91 m	231.96 m	232.07 m	1.00
Replace bridge with two lane adjacent box girder bridge, same soffit elevation	1050	26	12	230.29	1:50	230.04 m	231.87 m	231.93 m	232.04 m	0.25
Replace bridge with two lane adjacent box girder bridge, lower soffit elevation	1050	26	12	230.14	1:50	230.04 m	231.87 m	231.93 m	232.04 m	0.10

represents change from existing



Two lane truss, raised to achieve 1m clearance

OldShilohRoadBridge-Proposed Plan: two lane truss, raised soffit 5/17/2023

RS = 73.5 BR Bridge #5



